

Amendments to the Claims:

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The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A method for transferring a nucleic acid into a plant cell, comprising the steps of:
 - a) holding the cell under a pressure different from an atmospheric pressure; and
 - b) placing the cell and the nucleic acid under conditions ~~capable of inducing to~~ induce electroporation wherein the step of holding the cell under the pressure different from the atmospheric pressure is a step of subjecting the cell to depressurization, wherein the depressurization step is performed under a pressure reduced by about 0.096 MPa from the atmospheric pressure.
- 2-3. (cancelled)
4. (previously presented) The method according to claim 1, wherein the step of holding the cell under the pressure different from the atmospheric pressure is performed before the step of placing the cell and the nucleic acid under the conditions capable of inducing electroporation.
5. (cancelled)
6. (currently amended) The method according to claim 1, wherein step b) comprises applying a high-voltage pulse of 10 V/cm to 200 V/cm to the cell and the nucleic acid in at least two directions.
7. (cancelled)
8. (previously presented) The method according to claim 7, wherein the plant cell is a cell of dormant plant tissue.

9. (previously presented) The method according to claim 8, wherein the dormant plant tissue is a seed.
10. (previously presented) The method according to claim 7, wherein the plant is a monocotyledonous plant.
11. (previously presented) The method according to claim 10, wherein the monocotyledonous plant is a plant of the family *Gramineae*.
12. (previously presented) The method according to claim 11, wherein the plant of the family *Gramineae* is wheat (*Triticum aestivum* L.).
13. (previously presented) The method according to claim 11, wherein the plant of the family *Gramineae* is rice (*Oryza sativa* L.).
14. (previously presented) The method according to claim 11, wherein the plant of the family *Gramineae* is maize (*Zea mays* L.).
15. (previously presented) The method according to claim 7, wherein the plant is a dicotyledonous plant.
16. (previously presented) The method according to claim 15, wherein the dicotyledonous plant is a plant of the family *Cruciferae*.
17. (previously presented) The method according to claim 16, wherein the plant of the family *Cruciferae* is Chinese cabbage (*Brassica rapa* L.).
18. (previously presented) The method according to claim 16, wherein the plant of the family *Cruciferae* is rape (*Brassica napus* L.).
19. (previously presented) The method according to claim 15, wherein the dicotyledonous plant is a plant of the family *Leguminosae*.
20. (previously presented) The method according to claim 19, wherein the plant of the family *Leguminosae* is soybean (*Glycine max* Merr).

21. (previously presented) The method according to claim 15, wherein the dicotyledonous plant is a plant of the family *Solanaceae*.

22. (previously presented) The method according to claim 21, wherein the plant of the family *Solanaceae* is tomato (*Lycopersicon esculentum* Mill).

23. (previously presented) The method according to claim 15, wherein the dicotyledonous plant is a plant of the family *Cucurbitaceae*.

24. (previously presented) The method according to claim 23, wherein the plant of the family *Cucurbitaceae* is Japanese cantaloupe (*Cucumis melo* L.).

25. (previously presented) The method according to claim 15, wherein the dicotyledonous plant is a plant of the family *Convolvulaceae*.

26. (previously presented) The method according to claim 25, wherein the plant of the family *Convolvulaceae* is morning glory (*Pharbitis nil* Choisy).

27. (currently amended) A method for ~~producing~~ introducing a nucleic acid into the cells of a plant, wherein a nucleic acid is transferred into cells of the plant, comprising the steps of:

a) holding ~~[[a]]~~ the cell under a pressure different from an atmospheric pressure; ~~[[and]]~~

b) placing the cell and the nucleic acid under conditions ~~capable of inducing to induce~~ electroporation; and

c) differentiating, growing, and/or multiplying the cell wherein the step of holding the cell under the pressure different from the atmospheric pressure is a step of subjecting the cell to depressurization, wherein the depressurization step is performed under a pressure reduced by about 0.096 MPa from the atmospheric pressure.

28. (cancelled)

29. (currently amended) The method according to claim 27-~~or 28~~, wherein step a) comprises a step of holding a seed containing the cell under the pressure different from the atmospheric pressure, and step b) comprises a step of placing the seed containing

the cell and the nucleic acid under the conditions ~~capable of inducing~~ to induce electroporation.

30. (previously presented) The method according to claim 29, wherein the seed is a monocotyledonous plant seed.

31. (previously presented) The method according to claim 30, wherein the monocotyledonous plant seed is a seed of the family *Gramineae*.

32. (previously presented) The method according to claim 31, wherein the seed of the family *Gramineae* is a wheat (*Triticum aestivum* L.) seed.

33. (previously presented) The method according to claim 31, wherein the seed of the family *Gramineae* is a rice (*Oryza sativa* L.) seed.

34. (previously presented) The method according to claim 31, wherein the seed of the family *Gramineae* is a maize (*Zea mays* L.) seed.

35. (previously presented) The method according to claim 29, wherein the seed is a dicotyledonous plant seed.

36. (previously presented) The method according to claim 35, wherein the dicotyledonous plant seed is a seed of the family *Cruciferae*.

37. (previously presented) The method according to claim 36, wherein the seed of the family *Cruciferae* is a Chinese cabbage (*Brassica rapa* L.) seed.

38. (previously presented) The method according to claim 36, wherein the seed of the family *Cruciferae* is a rape (*Brassica napus* L.) seed.

39. (previously presented) The method according to claim 35, wherein the dicotyledonous plant seed is a seed of the family *Leguminosae*.

40. (previously presented) The method according to claim 39, wherein the seed of the family *Leguminosae* is a soybean (*Glycine max* Merr) seed.

41. (previously presented) The method according to claim 35, wherein the dicotyledonous plant seed is a seed of the family *Solanaceae*.
42. (previously presented) The method according to claim 41, wherein the seed of the family *Solanaceae* is a tomato (*Lycopersicum esculentum* Mill) seed.
43. (previously presented) The method according to claim 35, wherein the dicotyledonous plant seed is a seed of the family *Cucurbitaceae*.
44. (previously presented) The method according to claim 43, wherein the seed of the family *Cucurbitaceae* is a Japanese cantaloupe (*Cucumis melo* L.) seed.
45. (previously presented) The method according to claim 35, wherein the dicotyledonous plant seed is a seed of the family *Convolvulaceae*.
46. (previously presented) The method according to claim 45, wherein the seed of the family *Convolvulaceae* is a morning glory (*Pharbitis nil* Choisy) seed.
47. (currently amended) A plant, produced by a method according to any one of claims 27[[to 28]] or 30-46.
48. (previously presented) The plant according to claim 47, which does not contain a somaclonal variation.
49. – 70. (cancelled)
71. (previously presented) A plant, produced by a method according to claim 29.